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THIS IS UNEVALUATED INFORMATION FOR THE RESEARCH USE OF TRAINED INTELLIGENCE ANALYSTS

Documentary as indicated. (Information specifically requested.)

RECENTY PUBLISHED RESEARCH OF THE S. H. KIROV ACADITY OF MILITARY MEDICINE, LEVINGRAD, USER

"Polymerization-Depolymerization: I, Depolymerization of Rubber-like Polymers of Isobutylene," Ya. M. Slobodin, N. I. Matusevich, Kirow Acad Mil Med

"Zhurnal Obehchey Khimii" Vol 15, 1946, pp 2077-82

Thermal depolymerization of isobutylene rubber gives fragments ranging from the monomer to pentamers; some cracking also occurs. Crystalline triner discovered. Vistanex was heated to 3250 in a distillation apporatus, After depolymorization, the residue never exceeded 6-8%. Analyses of gases showed the presence of 1.3-3.9% saturated hydrocarbons; the unsaturated product was isobutylene, while the saturated product was apparently $C_k H_{10}$, with some $C_2 H_{30}$. Liquid portion of the distillate was fractionated to give a series of products whose proporties are given.

"Polymerization-Depolymerization: II, Catalytic Thermopolymerization of Pivinyi," Ya. M. Slobodin, F. Yu. Rachinskiy, Kirov Acad Mil Med

"Zhurnel Obehchey Khimii" Vol 17, 1947, pp 374-7

Polymerization of CH SCHCHECH, in a quartz tube of 20-mm diameter over an activated phloridin catalyst in a layer 22 cm high, at a rate of flow of 1 liter/hour, at 3000, 3507, and 4000, reached 54, 77, and 352. respectively. The gas contained some H2. In nger trans 1965 og star figger sky

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the condensate, the dimer fractions, boiling at 128-32° and 132-5°, contained up to 50% of an aromatic hydrocarbon, possibly formed from the dimer (2 GgH₁₂ -> GgH₁₀+CgH₁₄); hydrogenation over Pt black revealed the presence of one double bond. The dimer obtained forms no crystalline tetrabromide; its Br addition product is unstable and resinifies on standing; with C(NO₂)₄, the dimer gives a red color; its surface tension = 24.2 dynes/cm; the parachor P=310. The

tension = 24.2 dynes/cm; the parachor \$\rho\$=310. The arcentic hydrocarbon was identified as para-xylene by its oxidation with Khho; to terephthalic acid. The trimer fraction contains no aromatic compounds; it has two double bonds; = 20.8, \$\rho\$=16.3. The tetramer fraction is a highly viecous yellow liquid with marked fluorescence; the presence of three double bonds was established. In the fraction whose boilaing point is above 140°, the presence of a pentamer and of a hexmeer can be inferred from the average

"Was of Zine Phosphide (Zngr 2) as a Rodenticide," S. 1. Kalabukhov, Kirov Acad Mil Ned

molecular weight.

"Farmakol 1 Tokasikol" Vol 9, No 2, 1946, pp 53-6

Use of ZngP₂ in dry baits is affective against rate. Large dises (10-50 mg per rat) in fresh baits kill in 8-20 hours. Small doese in baits dried at 150 kill in 48-120 hours.

"Discotonefructore," Ya. H. Slobodin, A. N. Klimov, Kirov Acad Hil Med

"Zhurnal Cheshchey Khindi" Vol 15, 1945, pp 921-4

It was shown that the content of the a- and b-forms of discetonefructose c.pen's upon the amount of H_2SO, used for acetomization. With 0.5 ec H_2SO, per 100 ec Me_CO there is formed a mixture having 93% a-discetonefructose, and 7% b-form. By using 7 ec H_2SO, per 100 ec Me_CO, the mixture contains only 1% of the a-form and 9% b-form. Analysis conducted by determination of melting points, by using a melting point curve which was constructed from known mixtures.

"New Date on Therapy of Poisoning by Scorpion Venum," A. D. Panashenko, Kirov Acad Hil Med

"Farmakol i Toksikol" Vol 7, No 6, 1744, pp 41-6

In addition to known first-aid measures against scorpion bites, early application of any of the following treciment is recommended: (1) subcutane-custy 200 ml 3-5% or intravenously 100 ml of 1% HaySyu, repeated; (2) subcutaneously, 10 ml 5% or intravenously, 100 ml elowiy, 1% quinine-2801; (3) intravenously 10-20 ml 1% mathylete blue; (4) intravenously 50 ml 0.1% rivanol. low toxicity,

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ready availability, and direct action are characteristics of RacS203. Other agents act indirectly. Ephcorine and the novocaine-block technique are isoffective against scorpion venus.

"Latrodectus Spider Venom," A. I. Knametsov, Kirov Acad Mil Med

"Farmakol i Toksikol" Vol 7, No 6, 1914, pp 36-41

Black-death spider (Lahrodectes tradecinguitatus or L. lugubris app. erabus) is dangerous to men, horses, cows, and camels but not to sheep. Venom spreads to the loins, shoulders, joints, and extremities. Symptoms include exmitation of motor nerves, insomia, cardiac pain, exesis, cyanotic lips, and salivation. Swelling occurs near the bite. The blood can sometimes be detextified by repeated intravenous injections of 2-3% EMaO₂ in 3-5 ml doses, or by subcutane-cas or intravenous injections of 100-300 ml of 1-5% NA₂SO₂. Tests were made with frogs, mice, rate, rabbits, dogs, and birds. Even at a dilution of 1:127,000 the venom in vitro causes hemolysis and lysis of crythrocytes.

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